

0068888

SAF-RC-001
Industrial Hygiene Sampling
FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG 06I-0132-02 SAF-RC-001

Rad only ☒ Chem only Rad & Chem

☒ Complete Partial

300 Area 303M Bldg

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Cover Page

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Report Identification Number: 06I-0132-02
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001 / R303M0 J451
Payroll#: 73513



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
10 Jan 2006	J10RT0	06I00921	NMAM 7300M	G060D00W	G WIPE
10 Jan 2006	J10WP0	06I00922	NMAM 7300M	G060D00W	G WIPE
10 Jan 2006	J10RM1	06I00923	NMAM 7300M	G060D00W	G WIPE
10 Jan 2006	J10RM2	06I00924	NMAM 7300M	G060D00W	G WIPE

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Name: Lisa M. Reid
Title: Chemist
Date: January 16, 2006



Case Narrative Page

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Report Identification Number: 06I-0132-02
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Laboratory Identification Number: DCHM
SAF#: RC-001 / R303M0 J451
Payroll#: 73513

General Set Information: There are 4 samples in set 06I-0132-02 and 3 samples in set 06I-0133-01. The samples were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of $\pm 10\%$.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.07 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 2. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of $\pm 20\%$. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: One sample in this batch was replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:
Final result for aqueous samples ($\mu\text{g}/\text{sample}$) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu\text{g}/\text{L}$)

B = Concentration factor from sample preparation
= Final Volume of Digestate (L)

Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu\text{g}/\text{L}) \times (0.025 \text{ L}/\text{sample}) \times (1) = 0.025 \mu\text{g}/\text{sample}$

Miscellaneous Comments: None



Report Page

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SAF#: RC-001 / R303M0 J451
Payroll#: 73513

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium µg/sample		Cadmium µg/sample		Lead µg/sample	
J10RT0	06I00921	13 Jan 2006	<0.01	U	<0.07	U	4.9	
J10WP0	06I00922	13 Jan 2006	<0.01	U	<0.07	U	3.6	
J10RM1	06I00923	13 Jan 2006	<0.01	U	<0.07	U	<2.	U
J10RM2	06I00924	13 Jan 2006	<0.01	U	<0.07	U	<2.	U
Limit of Detection (LOD)			0.01		0.07		2.	
Required Detection Limit (RDL)								

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.



QC Summary Page

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Report Identification Number: 06I-0132-02
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Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF: RC-001 / R303M0 J451
Payroll#: 73513

Batch ID: G060D00W

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240031-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
BL-240031-1	MB	Cadmium	µg/sample	ND	NA	NA	NA	NA
BL-240031-1	MB	Lead	µg/sample	ND	NA	NA	NA	NA
QC-240031-1	LCS	Beryllium	µg/sample	10.8	NA	10.0	108.	NA
QC-240031-1	LCS	Cadmium	µg/sample	32.0	NA	30.0	107.	NA
QC-240031-1	LCS	Lead	µg/sample	98.7	NA	100.	98.7	NA
QD-240031-1	LCSD	Beryllium	µg/sample	11.0	10.8	10.0	110.	1.88
QD-240031-1	LCSD	Cadmium	µg/sample	32.7	32.0	30.0	109.	2.09
QD-240031-1	LCSD	Lead	µg/sample	102.	98.7	100.	102.	2.92

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

$LCS, LCSD \text{ Percent Rec.} = (\text{Result} / \text{Target}) * 100.0$

$MS, MSD \text{ Percent Rec.} = ((\text{Result} - \text{Parent}) / \text{Target}) * 100.0$

$LCS, LCSD \text{ Relative Percent Diff.} = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.$

$MS, MSD \text{ Relative Percent Diff.} = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.$

$LD \text{ Relative Percent Diff.} = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100$

06T-0132-0102

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST														
Collector:		Company Contact:		Telephone No.:		Project Coordinator:		Data Turnaround:						
Yetta D. Jones		Denise A. Pitts and Henry W. Ruby		531-1279		Joan H. Kassar		24 hour						
Payroll #:		Sampling Location:		SPECIAL INSTRUCTIONS:		SAF No.:		Method of Shipment:						
73513		300 Area		All relevant COAs must be provided: R303MD J451		RC-001		Fed Ex						
Type of Sample:		Wipe Sample Media:		ANALYSIS METHOD (SPECIFIC):										
Airborne & Wipes		Ghost <input type="checkbox"/> Yes <input type="checkbox"/> No		NIDSH T300										
Shipped To:		Other:		Preservation (i.e. cooling required, etc.)										
Data Chem														
Special Handling and/or Storage:		MATRIX:												
Salt Lake City		A - AIR												
Be, Cd, Pb		W1 - WIPE												
N/A		X - OTHER												
SAMPLE ANALYSIS														
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area (sq ft)	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Cadmium Airborne	Cadmium Wipe	Lead Wipe	No	No
J10W019	A	1-10-06	330L	personal	na	x	x	na	na	x				
J10W010	A	1-10-06	173L	personal	na	x	x	na	na	x				
J10R010	A	1-10-06	NA	Blank	na	x	x	na	na	x				
J10W018	A	1-10-06	NA	Blank	na	x	x	na	na	x				
J10R010	W1	1-10-06	100cm ²	na	na			x			x	x		
J10W010	W1	1-10-06	100cm ²	na	na			x			x	x		
J10R011	W1	1-10-06	NA	Blank	1-10-06			x	1-10-06		x	x		
J10R012	W1	1-10-06	100cm ²	Blank	na			x			x	x		
<div style="text-align: right;"> 8541 9337 5318 06T00917 18 19 20 </div>														

WCH-SH-202 (06/29/2005)

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Enter on line below the first Sample Number from Page One:

J10 WM9

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
SIGN / PRINT NAMES / USE MILITARY TIME			
Received By/Sign <i>[Signature]</i>	DATE / TIME 1-10-06 1630	Received By/Sign 3746 Building Rm 16, locked cabinet	DATE / TIME 1-10-06 1630
Received By/Sign 3746 Building Rm 16 locked cabinet	DATE / TIME	Received By/Sign	DATE / TIME
Received By/Sign <i>Gordon Mathan</i>	DATE / TIME 01-12-06 1445	Received By/Sign <i>RZ Steffler RZ Steffler</i>	DATE / TIME 1-12-06 1445
Received By/Sign <i>RZ Steffler RZ Steffler</i>	DATE / TIME 1-12-06 1515	Received By/Sign Fed Ex	DATE / TIME
Received By/Sign Fed Ex	DATE / TIME	Received By/Sign <i>Lulu Waratu</i>	DATE / TIME 1/13/06 1030
Received By/Sign <i>Metals 30W</i>	DATE / TIME	Received By/Sign	DATE / TIME
Received By/Sign	DATE / TIME	Received By/Sign	DATE / TIME
Received By/Sign	DATE / TIME	Received By/Sign	DATE / TIME
Received By/Sign	DATE / TIME	Received By/Sign	DATE / TIME
Received By/Sign	DATE / TIME	Received By/Sign	DATE / TIME
LABORATORY SECTION	Received By <i>Lulu Waratu</i>	Title	DATE / TIME 1/13/06 1030

REVIEWED BY: _____ DATE: _____
PRINT/SIGN NAME

WCH-SH-202 (08/29/2005)

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

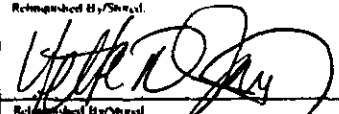

[illegible]

Enter on line below the first Sample Number from Page One:

J10WM9

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SIGN / PRINT NAMES / USE MILITARY TIME

Relinquished By/Street:	DATE / TIME	Received By/Street:	DATE / TIME
 Yette D. Jones	1-10-06 1630	3746 Building Rm 16, locked cabinet	1-10-06 1630
Relinquished By/Street:	DATE / TIME	Received By/Street:	DATE / TIME
3746 Building Rm 16 locked cabinet			
 Golden Mathan	01-12-06 1445	RZ Steffler R.Z. Steffl	1-12-06 1445
Relinquished By/Street:	DATE / TIME	Received By/Street:	DATE / TIME
RZ Steffler R.Z. Steffl	1-12-06 1515	Fed Ex	
Relinquished By/Street:	DATE / TIME	Received By/Street:	DATE / TIME
Relinquished By/Street:	DATE / TIME	Received By/Street:	DATE / TIME
Relinquished By/Street:	DATE / TIME	Received By/Street:	DATE / TIME
Relinquished By/Street:	DATE / TIME	Received By/Street:	DATE / TIME
Relinquished By/Street:	DATE / TIME	Received By/Street:	DATE / TIME
Relinquished By/Street:	DATE / TIME	Received By/Street:	DATE / TIME
LABORATORY SECTION	Received By	Title	DATE / TIME

REVIEWED BY:

DATE:

PRINT/SIGN NAME